

IN THE ABSTRACT

(Currently amended)

~~The present disclosure is~~ Embodiments of the present invention are directed toward nesting roles in a directory system. A nested role is a container of other roles. To nest, the DNs corresponding to the roles are added or encapsulated to form a nested role. A “nested” role can be configured to provide additional level of abstraction by nesting different role types – filtered, managed, enumerated or nested—whereby an entry can be a member of any one of the roles in the nesting. Nested roles allow a user to create roles that contain other roles. A nested role can be created with no members nested. Alternatively, a nested role may contain one or more members. The nesting or encapsulation is performed if (1) the target entry is within the scope of the role; and/or (2) target entry is within the scope of the role that causes the target entry to possess the nested role.

IN THE CLAIMS

Please amend the claims as shown below:

Claims 1-23 (Cancelled)

24. (New) A method for creating a nested role in a tree structured directory server comprising a plurality of entries comprising:

accessing a first role associated with one or more of said plurality of entries wherein said first role comprises a first identifiable attribute and a first distinguished name;

accessing a second role associated with one or more of said plurality of entries wherein said second role comprises a second identifiable attribute and a second distinguished name; and

creating said nested role by encapsulating said first distinguished name and said second distinguished name wherein said nested role comprises said first identifiable attribute and said second identifiable attribute and can be associated with one or more of said plurality of entries.

25. (New) The method as recited in Claim 24 further comprising:

encapsulating said first identifiable attribute and said second identifiable attribute into a third distinguished name.

26. (New) The method as recited in Claim 25 wherein said third distinguished name is nsRoleDN.

27. (New) The method as recited in Claim 24 wherein said first role is a dynamic role and wherein said first identifiable attribute is computed at the time of accessing said first role.

28. (New) The method as recited in Claim 24 wherein said first role is an enumerated role.

29. (New) The method as recited in Claim 24 wherein said first role is a filtered role.

30. (New) The method as recited in Claim 24 wherein said first role is a nested role.

31. (New) A system for creating a nested role in a tree structured directory server comprising a plurality of entries comprising:

    a directory server comprising a hierarchical data store associating a plurality of entries with service attributes, said hierarchical data store comprising an organization level and a role level and further comprising attribute templates defined with respect to services and levels;

    an application for accessing a first role level associated with one or more of said plurality of entries wherein said first role level comprises a first service attribute and a first distinguished name;

    an application for accessing a second role level associated with one or more of said plurality of entries wherein said second role level comprises a second service attribute and a second distinguished name; and

an application for creating said nested role level by encapsulating said first distinguished name and said second distinguished name wherein said nested role level comprises said first service attribute and said second service attribute and can be associated with one or more of said plurality of entries.

32. (New) The system as recited in Claim 31 wherein said first service attribute and said second service attribute are encapsulated into a third distinguished name.

33. (New) The system as recited in Claim 32 wherein said third distinguished name is nsRoleDN.

34. (New) The system as recited in Claim 31 wherein said first role level is a dynamic role level and wherein said first service attribute is computed at the time of accessing said first role level.

35. (New) The system as recited in Claim 31 wherein said first role level is an enumerated role level.

36. (New) The system as recited in Claim 31 wherein said first role level is a filtered role level.

37. (New) The system as recited in Claim 31 wherein said first role level is a nested role level.

38. A method for validating whether an entry of a tree structured hierarchical directory server comprising a plurality of entries meets criteria for a nested role comprising:

accessing said nested role comprising a first distinguished name and a second distinguished name and further comprising a first identifiable attribute and a second identifiable attribute wherein each of said identifiable attributes can be associated with one or more of said plurality of entries; and

in response to a query for an entry, computing a computed attribute associated with one or more of said plurality of entries and verifying if said computed attribute matches said first identifiable attribute or said second identifiable attribute.

39. The method as recited in Claim 38 further comprising:

encapsulating said first identifiable attribute and said second identifiable attribute into a third distinguished name.

40. (New) The method as recited in Claim 39 wherein said third distinguished name is nsRoleDN.